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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/518,389	12/30/2004	Robert Parker	261982US0PCT	2834
22850	7590 10/12/2006		EXAMINER	
C. IRVIN MCCLELLAND			WU, SHEAN CHIU	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			1756	
			DATE MAILED: 10/12/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		10/518,389	PARKER ET AL.	
		Examiner	Art Unit	
		Shean C. Wu	1756	
Period fo	The MAILING DATE of this communication ap	opears on the cover sheet	with the correspondence addres	;s
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing datent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU .136(a). In no event, however, may d will apply and will expire SIX (6) No tte, cause the application to become	NICATION. y a reply be timely filed NONTHS from the mailing date of this commuse ABANDONED (35 U.S.C. § 133):	
Status				
2a)□	Responsive to communication(s) filed on 12/3 This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under	is action is non-final. ance except for formal m	•	erits is
Dispositi	on of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.		
Applicati	on Papers			
10) <u> </u>	The specification is objected to by the Examin The drawing(s) filed on is/are: a) acception and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) objected or b) objected or b) objected or b) objected in abey oction is required if the drawi	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.	
Priority u	nder 35 U.S.C. § 119			
12)⊠ / a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureatee the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have been (PCT Rule 17.2(a)).	Application No en received in this National Stag	je
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 12/30/04	Paper N	w Summary (PTO-413) o(s)/Mail Date of Informal Patent Application 	

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In Claim 1, the claim language "may be" under notation "m" is not a positive citation.

In Claim 1, last line, the word -- single -- should be inserted before "chemical bond" to clarify the claim language.

In Claim 2, the claim language "may be" under notation "r" is not a positive citation.

In Claims 4 and 19, the definition for "T" is vague because the first group is saturated

cyclohexane, which the T is defined as unsaturated carbocyclic ring.

In Claims 5 and 20, the claim language "may be" under notation "Y⁴" is not a positive citation.

Claims 3 and 6-18 are rejected because they are dependent claims.

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The closest references (DE 19640618, DE 19628700 and EP 630892) differ from the present invention in that the present invention has a novel structure represented by formula (I). The present chiral compound has two mesogenic cores linking to ring by ortho instead of paraposition. Also, see the method of preparing the present compound, which is different from the cited references.

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3. The reference (CA 1969: 524819) differs from the present compound in that the present

compound has a spacer (A¹) group.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The

examiner can normally be reached on 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shean C Wu

Primary Examiner

Art Unit 1756

scw